Project no. 2022-1-PL01-KA220-HED-000086524 January 2025, Issue 3

NEWSLETTER

AIMS

The purpose of this project was specified as closing skills gaps of undergraduate students, who will work at primary schools, in solution processes of possible challenges related to students with MA by developing:

A. Modular Course Curriculum to Encourage the Use of Robotics Applications for Flipped Learning in Primary School Maths Education

B. Virtual Video Library with Robotics Practices consisting of Scenario-Based Learning and Teaching Processes

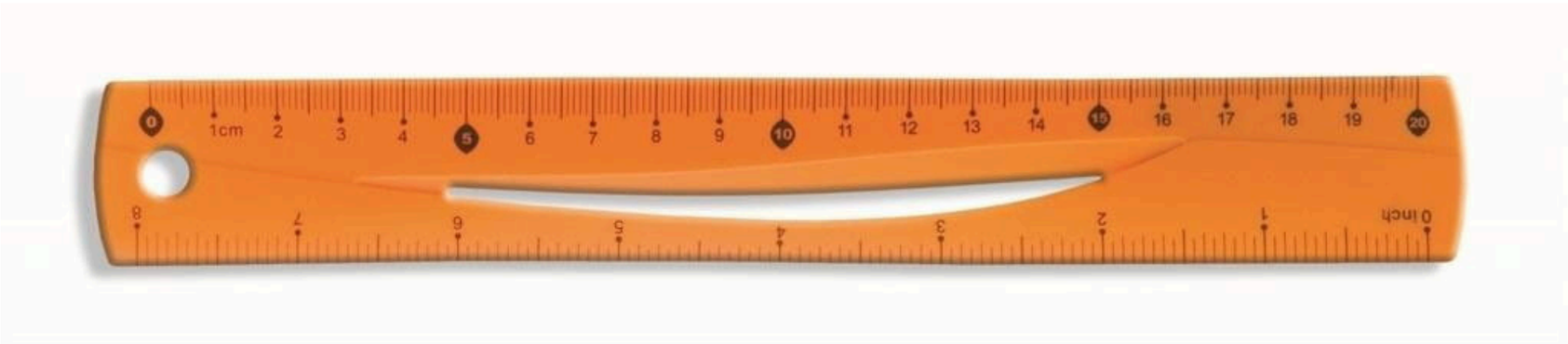
C. Teacher Guide: Applying Flipped Learning through Robotics Practices in Primary Schools

RBTS in MATH

RbtsInMath - Developing Mathematics Achievement through Using Robotics Applications in Flipped Learning

1/11/2022 - 28/02/2025

- Prospective teachers
- Primary school teachers



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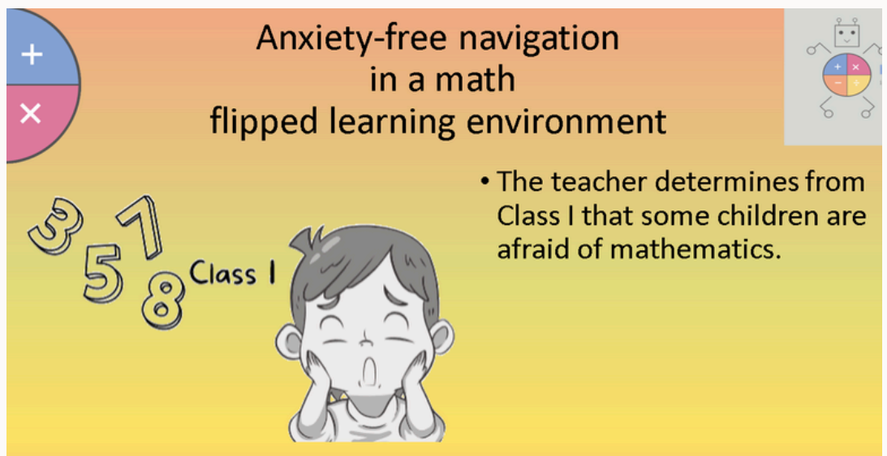
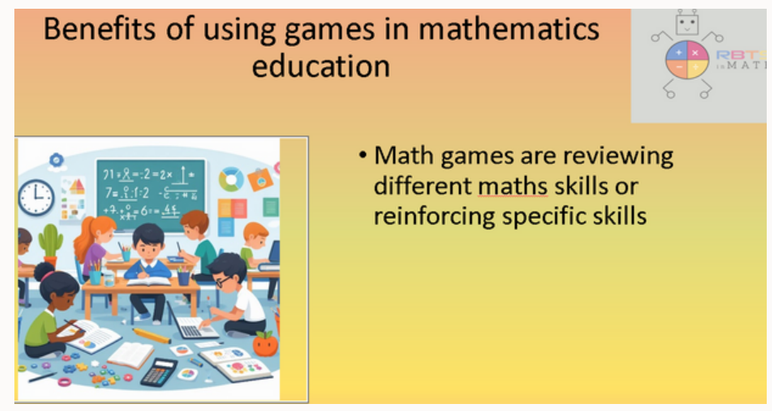
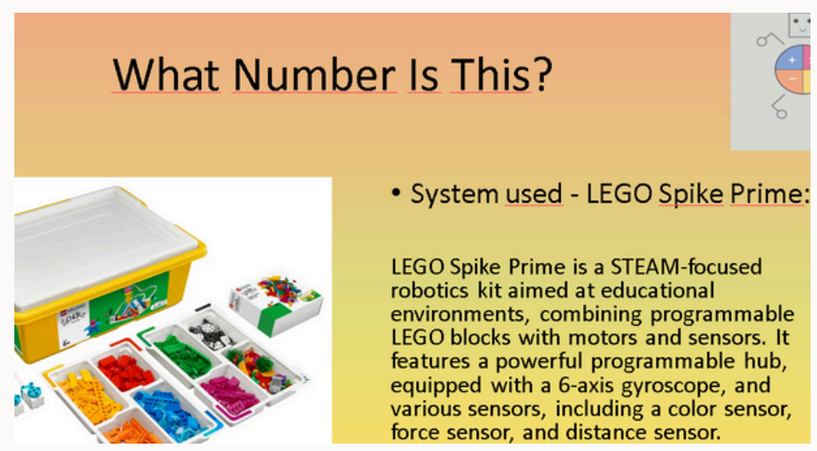
WORK PACKAGE 3
VIRTUAL VIDEO LIBRARY WITH ROBOTICS PRACTICES







As part of Work Package 3, the Partners have prepared the Virtual Video Library with Robotics Practices. This Virtual Video Library consists of Scenario-Based Learning and Teaching Processes. This Work Package aims to contribute to the development of innovative learning and teaching activities. At the same time, it will enable pre-service teachers to achieve excellence in learning and teaching by improving their robotics skills. The library will provide the pre-service teachers the sample video clips and PowerPoint (PP) animations of the application of tens of digital pedagogy in lessons. Pre-service teachers will easily find video and animated PP examples on how to use maths education on flipped learning, distance education or digital supported education and the platform will be able to easily transfer them to learning and teaching activities in the digital environment.

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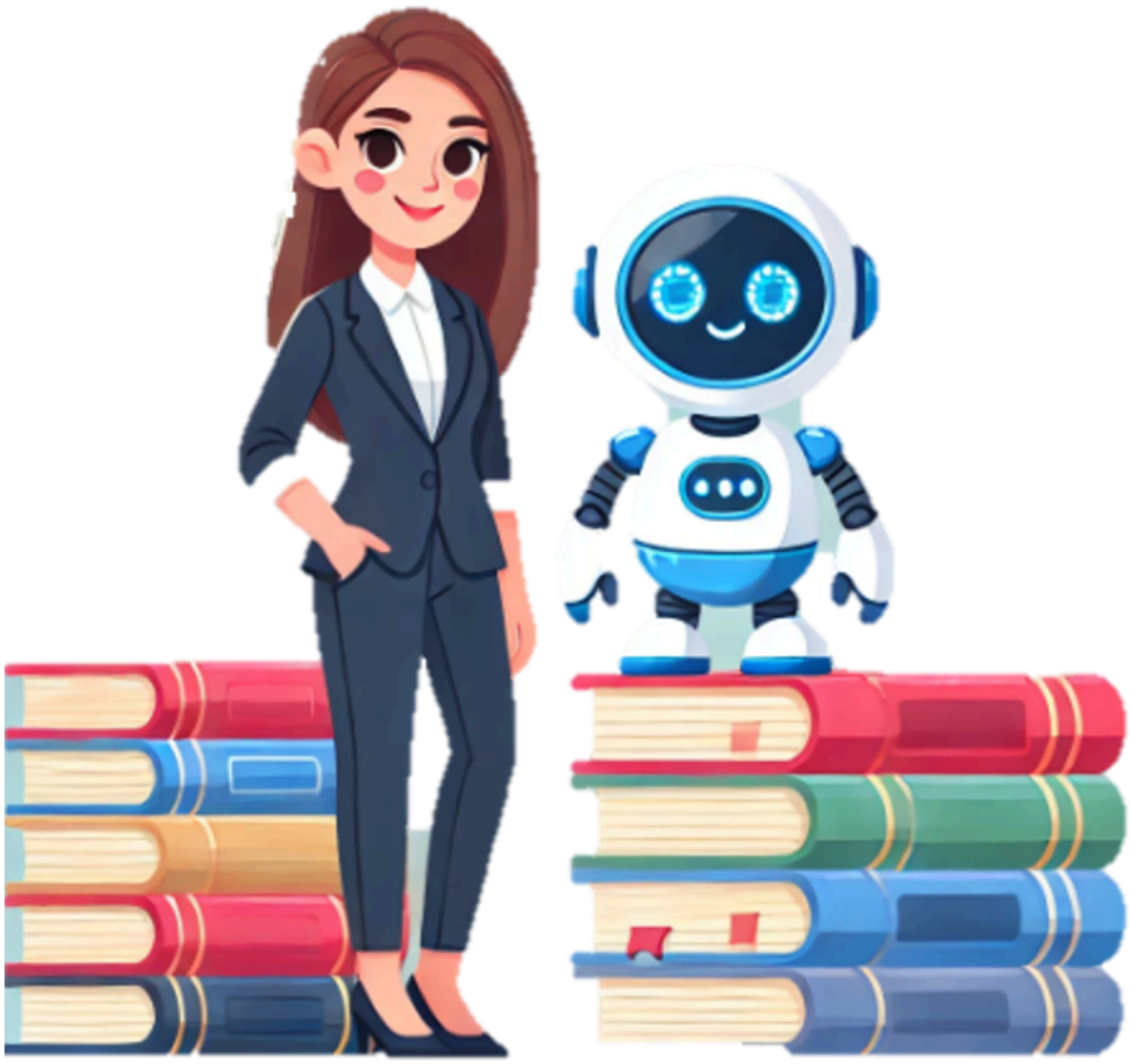

WORK PACKAGE 4 - DIGITAL TEACHING GUIDE SUPPORTED BY ROBOTICS APPLICATIONS

Digital Teacher Guide for preschool teachers and in-service teachers aims to create innovative learning materials in the application of robotics applications in primary school mathematics education. All partners will develop content and conduct analysis through literature reviews, and individual and teamwork activities to prepare a Teacher Guide for Applying Flipped Learning in Robotics Practices in Primary Schools.

All partners will write on the important subject of digital pedagogy. The study will be based on the knowledge paper on the digital pedagogy curriculum that was studied in WP2.

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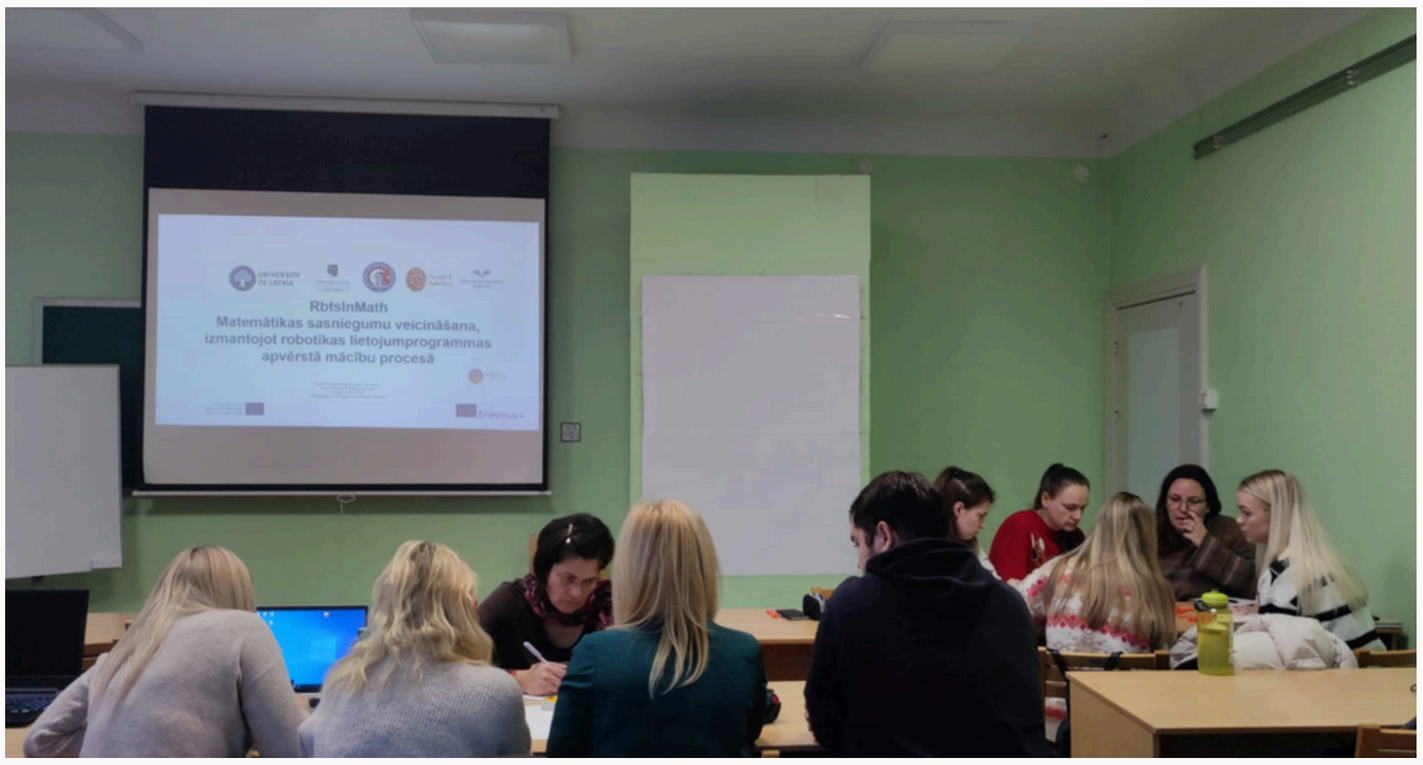
THE SEMINARS LEVERAGING ROBOTIC APPLICATIONS IN A FLIPPED LEARNING FRAMEWORK TO IMPROVE MATH ACHIEVEMENT

These seminars carry out the proposed objectives to the target groups so that they will learn how to implement the modular curriculum at the classroom, how to use virtual digital platform in learning and teaching activities, and how to follow a digital guide book in teaching activities. The seminars were organized by the all partners. There were two-day seminars for the pre-service teachers, teachers, stakeholders and end-users such as interested undergraduate students, lecturers, NGOs, primary school representatives, educational authorities and school administrations.



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3RD TRANSNATIONAL PROJECT MEETING IN GENOVA, ITALY

On 16–17 September in Genova, Italy, the project consortium held its face-to-face meeting. Project partners from Poland, Romania, Turkey, and Latvia were hosted by Scuola di Robotica.

The aim of the meeting was to summarise the work carried out so far. Partners discussed the preparation of the Virtual Video Library with robotics practitioners. The next step will be to develop a Digital Teaching Guide supported by Robotics Applications.

Traditionally, at the meeting, the partners also discussed issues related to project management, quality assurance, and the dissemination of the developed results.

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THE CONFERENCE
EMERGING NEW TECHNOLOGIES IN EDUCATION: SHAPING THE FUTURE OF LEARNING
FEBRUARY 20 – 21, 2025,
CANAKKALE ONSEKIZ MARTT UNIVERSITY
SCHOOL OF EDUCATION

RBTS in MATH

The "Emerging New Technologies in Education" conference brings together educators, researchers, technologists, and policymakers to explore the latest technological innovations reshaping education. This event focuses on integrating cutting-edge technologies to enhance learning experiences, improve accessibility, and foster global collaboration in education.

Conference will be organized by Canakkale Onsekiz Mart University School of Education with the contribution of Spoleczna Akademia NAUK, University of Latvia, Lucian Blaga University of Sibiu, Scuola di Robotics under the KA220-HED-Project. Presentation will be English and Turkish.

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